

ABSTRACT OF THE DISCLOSURE

A device for generating a floating state of an object by sound waves includes a rigid support structure having a top surface for absorbing forces generated by the gravitation or acceleration of the levitating object and perpendicularly acting on the top surface. A thin oscillatory element is arranged in parallel to the top surface. Further provided is a vibration generator for making the thin oscillatory element vibrating and levitating above the top surface so that the object is levitating above the thin oscillatory element without contacting it.